



CONSTRUCTION DETAILS

- CUT EXISTING CONDUIT AND INSTALL PROPOSED ELECTRICAL HANDHOLE ON EXISTING CONDUIT.
- INSTALL 27 FT. SINGLE MAST ARM POLE WITH A 50 FT. MAST ARM ON CONCRETE FOUNDATION WITH SIGNAL HEADS, SIGNS, VIDEO DETECTION CAMERA, 20 FT. LIGHTING ARM WITH LED LUMINAIRE, AND POLE MOUNTED SPLICE CABINET. (NOTE: INSTALL 1-3 IN. AND 1-2 IN. 90° PVC CONDUIT BEND).
- INSTALL 10 FT. PEDESTAL POLE ON MODIFIED BASE WITH BREAKAWAY COUPLINGS (MD 801.01-01). COUNTDOWN PEDESTRIAN SIGNAL HEAD, AUDIBLE-TACTILE PEDESTRIAN PUSH BUTTON AND SIGN (NOTE: INSTALL 1-2 IN. 90° PVC CONDUIT BEND). INCORPORATE CONCRETE FOUNDATION INTO PROPOSED CURB.
- INSTALL ELECTRICAL HANDHOLE.
- INSTALL A NEMA SIZE "S" BASE MOUNTED CABINET WITH ALL NECESSARY EQUIPMENT (NOTE: INSTALL 2-2 IN. AND 2-4 IN. 90° PVC CONDUIT BEND).
- INSTALL 2 IN. SCHEDULE 80 PVC CONDUIT - TRENCHED.
- INSTALL 3 IN. SCHEDULE 80 PVC CONDUIT - TRENCHED.
- INSTALL 4 IN. SCHEDULE 80 PVC CONDUIT - TRENCHED.
- INSTALL 4 IN. SCHEDULE 80 PVC CONDUIT - BORED.
- REMOVE EXISTING HANDHOLE AND BACKFILL. CAP AND ABANDON EXISTING CONDUIT.
- REMOVE EXISTING BASE MOUNTED CABINET AND CAP AND ABANDON EXISTING CONDUITS. REMOVE EXISTING BASE 12 IN. BELOW GRADE AND BACK FILL.

CONSTRUCTION DETAILS (CONTINUED)

- REMOVE EXISTING SIGNAL POLE AND ALL ASSOCIATED EQUIPMENT, CAP AND ABANDON EXISTING CONDUIT. REMOVE EXISTING FOUNDATION 12 IN. BELOW GRADE AND BACK FILL.
- USE EXISTING HANDHOLE. PULL BACK EXISTING INTERCONNECT CABLE FROM EXISTING BASE MOUNTED SPLICE CABINET. RE-ROUTE TO EXISTING BASE MOUNTED SPLICE CABINET THROUGH PROPOSED CONDUITS.
- ABANDON EXISTING LOOP DETECTOR.
- INSTALL 12 IN. WHITE PREFORMED THERMOPLASTIC PAVEMENT MARKING (FOR CROSSWALK).
- INSTALL 24 IN. WHITE PREFORMED THERMOPLASTIC PAVEMENT MARKING (FOR STOP LINE).
- INSTALL RAMP PER DETAIL SHEET.
- INSTALL 4 IN. SCHEDULE 80 PVC CONDUIT - TRENCHED. STUB UP AT BASE OF PEPCO POLE NUMBER 736474-4501 AND COIL 35 FT. OF EACH CABLE AT THE BASE OF THE POLE.
- REMOVE EXISTING PAVEMENT MARKING.
- INSTALL EMBEDDED METERED SERVICE PEDESTAL 100 AMP (NOTE: INSTALL 3-2 IN. AND 1-4 IN. 90° PVC CONDUIT BEND).
- REMOVE AND REPLACE GUARDRAIL TRAFFIC BARRIER PER DETAIL SHEET.
- INSTALL PROPOSED GROUND MOUNTED SIGN ON TWO 4 IN. X 4 IN. WOOD POSTS.
- INSTALL 16.5 FT. TWIN MAST ARM POLE WITH A 15 FT. 10" DIMENSION AND A TWIN 50 FT/60 FT. MAST ARM ON CONCRETE FOUNDATION WITH SIGNAL HEADS, SIGNS, AND VIDEO DETECTION CAMERAS. (NOTE: INSTALL 1-3 IN. AND 1-2 IN. 90° PVC CONDUIT BEND). INSTALL 60 FT. MAST ARM ON THE DAY OF TURN-ON.
- INSTALL 5 IN. WHITE PREFORMED THERMOPLASTIC PAVEMENT MARKING (FOR SOLID LANE LINE).
- USE EXISTING CONDUIT.
- CAP AND ABANDON EXISTING CONDUIT.

GENERAL NOTES

- VIDEO CAMERA LOCATION / ALIGNING SHALL BE COORDINATED WITH THE MONTGOMERY COUNTY ENGINEER.
- ALL PROPOSED LUMINAIRES SHALL BE SUPPLIED WITH A PHOTOCCELL.
- DISCONNECTING AND SPLICING OF INTERCONNECT CABLE SHALL BE PERFORMED BY MONTGOMERY COUNTY FORCES. THE CONTRACTOR SHALL RUN THE INTERCONNECT CABLE INTO THE BASE OF EACH CABINET AND PROPERLY TAG THE CABLE.
- ALL PAVEMENT MARKINGS SHALL BE INSTALLED IN ACCORDANCE WITH SHA STANDARDS.
- ALL TRAFFIC SIGNAL FOUNDATIONS SHALL BE INSTALLED AT THE FINAL SIDEWALK OR CURB GRADE FOR CLOSED SECTIONS. HIGHEST ROADWAY PROFILE GRADE FOR OPEN SECTIONS TO MEET CLEARANCES AS SPECIFIED IN THE APPROPRIATE 800 SERIES STANDARD PLATES. THE CONTRACTOR SHALL VERIFY ULTIMATE GRADES PRIOR TO THE INSTALLATION OF ALL SIGNAL EQUIPMENT.
- THE CONTRACTOR SHALL VERIFY ALL PROPOSED POLE AND CABINET LOCATIONS PRIOR TO INSTALLATION.
- ALL UNUSED SIGNAL CABLES SHALL BE REMOVED AND DISPOSED.
- IF THE CABINET IS TO BE REMOVED MONTGOMERY COUNTY FORCES SHALL REMOVE THE CONTROLLER AND ALL AUXILIARY EQUIPMENT FROM THE CONTROLLER CABINET. THE CABINET AND ALL OTHER MATERIALS TO BE REMOVED BY THE CONTRACTOR SHALL BECOME THE PROPERTY OF THE SIGNAL CONTRACTOR UPON COMPLETION OF THE NEW SIGNAL.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR TERMINATING ALL SIGNAL CABLE TO THE APPROPRIATE TERMINALS AND PROPERLY LABELING EACH CABLE. ALL INTERNAL CABINET WIRING SHALL BE PERFORMED BY MONTGOMERY COUNTY FORCES.
- ALL UNDERGROUND AND OVERHEAD UTILITIES SHOWN ON THESE PLANS ARE SCHEMATIC ONLY AND MAY NOT BE COMPLETE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFYING MISS UTILITY PRIOR TO CONSTRUCTION SO THAT ALL UTILITIES MAY BE LOCATED IN THE FIELD. IF THE CONTRACTOR PERCEIVES THAT A CONFLICT BETWEEN THE UTILITIES AND THE TRAFFIC SIGNAL WILL OCCUR, THE CONTRACTOR SHALL NOTIFY THE PROJECT ENGINEER IMMEDIATELY SO THAT THE CONFLICT MAY BE RESOLVED.
- CONTRACTOR SHALL NOTIFY MR. KAMAL HAMUD AND MR. ROBERT RICKETTS 72 HOURS IN ADVANCE OF INTENDED WORK.
- THE CONTRACTOR SHALL MAINTAIN THE CONTINUOUS OPERATION OF ALL INTERCONNECT, VEHICULAR, PEDESTRIAN DETECTORS, AND LIGHTING DEVICES. IF ANY DEVICE IS DAMAGED BY THE CONTRACTOR, IT SHALL BE REPAIRED WITHIN 72 HOURS BY THE CONTRACTOR AT NO COST TO THE SHA AFTER NOTIFICATION BY THE ENGINEER.

GENERAL NOTES (CONTINUED)

- THE CONTRACTOR SHALL BE RESPONSIBLE FOR DELIVERING THE SIGNAL CABINET AND VIDEO INTERFACE EQUIPMENT TO THE MONTGOMERY COUNTY SIGNAL SHOP. THE CONTRACTOR SHALL DELIVER APS PUSHBUTTONS AND CENTRAL CONTROL UNIT TO MR. ROBERT RICKETTS AT MONTGOMERY COUNTY TECHNICAL CENTER AT 1283 SEVEN LOCKS ROAD, ROCKVILLE, MD 20854 AT LEAST 3 WEEKS PRIOR TO BEGINNING WORK. THE CONTRACTOR SHALL HAVE THE APS WAVE FILES TO MR. ROBERT RICKETTS.
- PUSHBUTTONS ARE TO BE LOCATED SO THAT THEY CAN BE ACTIVATED BY A PERSON IN A WHEELCHAIR REACHING LESS THAN 18 IN. FROM A 60 IN. X 60 IN. LEVEL LANDING AREA WITH A CROSS SLOPE OF LESS THAN OR EQUAL TO 2%.
- PUSHBUTTON ARROWS ARE TO BE PARALLEL TO THE CROSSING FOR WHICH THEY ARE INTENDED.
- LOCATION OF ACCESSIBLE PEDESTRIAN SIGNAL PUSHBUTTONS MUST MEET LOCATION REQUIREMENTS OF MUTCD SEC. 4E.08 AND 4E.10 AS WELL AS FIGS. 4E-3 AND 4E-4, AND THE NCHRP PUBLICATION, ACCESSIBLE PEDESTRIAN SIGNALS: GUIDE TO BEST PRACTICE. IF NOT MET, THE CONTRACTOR IS TO STOP WORK ON PUSHBUTTON LOCATION UNTIL A DESIGN WAIVER IS OBTAINED, APPROVED BY THE DIRECTOR, OFFICE OF TRAFFIC AND SAFETY.

GEOMETRIC LEGEND

EXISTING
PROPOSED

UTILITY LEGEND

SD STORM DRAIN
G GAS MAIN
W WATER MAIN
S SEWER MAIN
E ELECTRIC CABLES
A AERIAL CABLES
T TELEPHONE CABLES
F FIBER-OPTIC

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APPROVALS	REVISIONS
TEAM LEADER	
ASST. DIR. CHIEF	
DIVISION CHIEF	
OFFICE DIRECTOR	

RECONSTRUCT WITH NEW SIGNAL POLES,
HEADS, ARCS, LUMINAIRE VIDEO
DETECTION AND ADA RAMP
SHA NO. X7238185 TMS NO. M005 6/28/2013
7/7

PLOTTED: Wednesday, August 07, 2013 AT 10:26 AM
FILE: T:\1731244-TrafficDesign\Services\TRF\51\Plan\pSG_P001- MD 124 @ Quince Orchard Blvd.dgn

SHA

STATE OF MARYLAND
DEPARTMENT OF TRANSPORTATION
STATE HIGHWAY ADMINISTRATION
OFFICE OF TRAFFIC & SAFETY
TRAFFIC ENGINEERING DESIGN DIVISION

MD 124 (QUINCE ORCHARD RD) AT QUINCE ORCHARD BLVD
SIGNALIZATION RECONSTRUCTION
GAITHERSBURG, MD

SIGNALIZATION PLAN SHEET

SCALE 1" = 20' DATE 10/27/987 CONTRACT NO. M-603-501-385

DESIGNED BY P.A.H. OF GPI COUNTY MONTGOMERY

DRAWN BY N.B. OF GPI LOGMILE 15012402.14

CHECKED BY D.J. DODA TMS NO. N/A

F.A.P. NO. TOD NO. N/A

TS NO. 2377A DRAWING SG-01 OF 03 SHEET NO. OF